CUBE & CUBE ROOTS

Worksheet 2

$3\sqrt{a}$

A LITTLE PROGRESS EACH DAY ADDS UP TO BIG RESULTS.

1. The smallest number with which 1188 should be divided to get a perfect cube is

A. 45   B. 44   C. 54   D. 24

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2. If $\sqrt{1 - \dfrac{x^3}{100}} = \dfrac{3}{5}$ then x equals

A. 2   B. 4   C. 16   D. $(136)^{\frac{1}{3}}$

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3. Evaluate cube root of $125 \times 27 \times 3$

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4. The cube of a number is 8 times the cube of another number. If the sum of the cubes of numbers is 243, then what is the difference of the numbers?

A. 3   B. 4   C. 6   D. –6

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5. The product $864 \times n$ is a perfect cube. What is the smallest possible value of 'n'?

A. 2   B. –2   C. 1   D. –4

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6. What is the largest four-digit number which is a perfect cube?

A. 8000   B. 9261   C. 9999   D. 1000

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7. If $72 \times k$ is a perfect cube, find the value of k.

A. 1   B. 2   C. 3   D. 4

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8. n and p are integers greater than 1, 5n is the square of a number and 75np is the cube of a number. Find the smallest value for n + p.

A. 14   B. 18   C. 20   D. 30

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9. Evaluate $\sqrt[3]{\dfrac{343 \times 125}{0.064}}$.

A. 875   B. 8.75   C. 807.5   D. 87.5

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10. Given that 512 = 8^3 and 3.375 = 1.5^3, find the value of $\sqrt[3]{512} \times \sqrt[3]{3.375}$.

A. 12   B. 9.5   C. 8   D. 1.5

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Answer Key

1. B
2. B
3. 15
4. A
5. A
6. B
7. C
8. A
9. A
10. A